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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,578	06/28/2007	Malcolm King	14628-2	1996
BERESKIN AND PARR LLP/S.E.N.C.R.L., s.r.l. 40 KING STREET WEST			EXAMINER	
			HOLT, ANDRIAE M	
BOX 401 TORONTO, ON M5H 3Y2		ART UNIT	PAPER NUMBER	
CANADA	CANADA		1616	
			MAIL DATE	DELIVERY MODE
			09/30/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/599,578	KING ET AL.			
Office Action Summary	Examiner	Art Unit			
	Andriae M. Holt	1616			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
• •	VIO CET TO EVOIDE 4				
A SHORTENED STATUTORY PERIOD FOR REPL` 10599578 - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a re will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>02 O</u>	<u>ctober 2006</u> .				
2a) This action is FINAL . 2b) This	· ·				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-12 and 14-16</u> is/are pending in the	application.				
4a) Of the above claim(s) is/are withdray					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8)⊠ Claim(s) <u>1-12 and 14-16</u> are subject to restrict	ion and/or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	ır.				
10) The drawing(s) filed on is/are: a) acc	epted or b)⊡ objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority document		N			
2. Certified copies of the priority document					
 Copies of the certified copies of the prior application from the International Bureau 	•	ed in this National Stage			
* See the attached detailed Office action for a list	· · · · · · · · · · · · · · · · · · ·	ad			
oce the attached detailed enloc action for a list	or the definion dopied flot redelive	м.			
Attachment(a)					
Attachment(s) 1) \(\sum \) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	atent Application			

DETAILED ACTION

Claims 1-12 and 14-16 are pending in the application.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-2, 4-6 and 14-16, drawn to a method of enhancing mucus function comprising administering an effective amount of a mucothickening agent to a subject in need thereof. The enhancing mucus function is improving physical and/or biochemical properties of the layer of the mucus lining of the respiratory system, digestive system, urinary tract and/or the reproductive system.

Group II, claim(s) 1-3, 7-9, and 14-16, drawn to a method of enhancing mucus function comprising administering an effective amount of a mucothickening agent to a subject in need thereof. The enhancing mucus function is for inhibiting aerosolization and/or transmission of an airborne disease.

Group III, claim(s) 1-3, 10-12, and 14-16, drawn to a method of enhancing mucus function comprising administering an effective amount of a mucothickening agent to a subject in need thereof. The enhancing mucus function is treating a condition related to thin mucus or cilia malfunction or nonfunction.

Note: Claims appearing in more than one group will only be examined to the extent that they read on the elected invention group.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Applicant claims multiple processes of use that are not obvious variants of each other. The invention of group II is used to inhibit aerosolization and/or transmission of an airborne disease.

Whereas, the invention of group III is used to treat a condition related to thin mucus or cilia malfunction or nonfunction, such as cystic fibrosis. As provided in 37 CFR 1.475(b), an international application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:(1) A product and a process specially adapted for the manufacture of said product; or (2) A product and process of use of said product; or (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or (4) A process and an apparatus or means specifically designed for carrying out the said product, and an apparatus or means specifically designed for carrying out the said product, and an apparatus or means specifically designed for carrying out the said process. Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Claim 2 recites the following species of "mucus functions": Respiratory tract clearance, epithelial protection, ion exchange, and nutrient intake.

Claim 4 recites the following species of "mucus lining": Respiratory system, digestive system, urinary tract, reproductive

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. Applicant is

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required to elect a single species for mucus functions and mucus lining. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Claim 2 recites various species of "mucus functions" used in the invention of Groups I, II, and III.

Claim 4 recites various species of "mucus lining" used in the invention of Groups I, II, and III.

The following claim(s) are generic: 1

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Pursuant to PCT Rule 13.2 and PCT Administrative Instructions, Annex B, Part 1 (f)(l)(B)(2), the species are not art recognized equivalents.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

The examiner notes that after review of the claims a restriction requirement was deemed appropriate, instead of an election of species as discussed with Ms. Patricia Folkins on May 3, 2010.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Applicant is reminded in order for the restriction requirement to be complete an election of a single invention from Groups I-III should be made and an election of a single species from the following species: mucus functions, such as respiratory tract mucus clearance and mucus lining such as the respiratory system.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andriae M. Holt whose telephone number is (571)272-9328. The examiner can normally be reached on 7:00 am-4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richter Johann can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andriae M. Holt Patent Examiner Art Unit 1616

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616